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Dairy Herd Improvement Letter

Vol. 52, No. 1

NATIONAL COOPERATIVE
DAIRY HERD IMPROVEMENT
PROGRAM

A dairy recordkeeping plan
for every herd

ARS-NE-60-3

PRODUCTION SECTION
CURRENT SERIAL RECORDS

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Animal Physiology
and Genetics Institute

Issued February 1976

Dairy Herd Improvement Letter
2070 ARTIFICIAL BREEDING REPORT
FISCAL YEAR 1974 7/23/74

This Letter contains data for fiscal year 1974 for units of semen produced and units custom-frozen or both by member organizations of the National Association of Animal Breeders. As with data for fiscal years 1970 through 1973, all transactions reported are within the United States.

Table 1 includes the number of bulls and units of semen sold or custom-frozen or both by AI organizations for dairy and beef. AI organizations are listed alphabetically.

Table 2 includes units of semen sold or custom-frozen or both by breed for dairy and beef cattle.

Table 3 includes units of dairy and beef semen sold or custom-frozen or both within each State and Puerto Rico.

Table 4 includes the number of dairy bulls and units of semen by AI organization within breed.

Table 5 includes the same data for beef cattle.

The data indicate a reduction of 252,517 units of semen in total business from FY 1973. Individual differences are as follows:

There were 506,723 fewer dairy units sold and 45,477 more dairy units custom-frozen for a net decrease in dairy business of 461,246 units of semen.

The opposite trend occurred for beef semen. There were 162,868 more beef units sold and 550,895 more beef units custom-frozen for an increase in beef business of 713,763 units of semen.

Table 6 shows the ranking of the top 10 States for units of semen sold for dairy and beef for 4 years.

Table 7 is a summary of the status of artificial breeding in the United States for fiscal years 1970 through 1974.

Table 8 is a list of names and addresses of the artificial insemination organizations reporting data for this Letter.

1/ Prepared by Gerald J. King, dairy husbandman, and Evelyn F. Myers, clerk, of the Animal Improvement Programs Laboratory, Animal Physiology and Genetics Institute, Northeastern Region, ARS, USDA, Beltsville, Maryland 20705.

Table 9 is a list of names and addresses of Extension Dairymen advising on dairy cattle breeding programs in each State.

ERRATA

In the Dairy Herd Improvement Letter, Vol. 51, No. 2, table 18, four figures are incorrect. These figures are for Washington and Wisconsin for dairy units sold and the dairy totals for these two States. The figures for Washington should be 192,700 dairy units sold and 206,912 total dairy units. The figures for Wisconsin should be 1,861,410 dairy units sold and 1,902,773 total dairy units.

TABLE 1.--BULLS, UNITS OF SEMEN SOLD, AND UNITS OF SEMEN CUSTOM-FROZEN IN FY 1974, BY AI ORGANIZATION 1/, 2/

AI ORGANIZATION		UNITS SOLD						UNITS CUSTOM-FROZEN						TOTAL DAIRY UNITS	TOTAL BEEF UNITS	
		DAIRY			BEEF			DAIRY			BEEF					
		BULLS	UNITS	AVG./ BULL	BULLS	UNITS	AVG./ BULL	BULLS	UNITS	AVG./ BULL	BULLS	UNITS	AVG./ BULL			
13 *ALL WEST BREEDERS-----		---	286,222	-----	---	73,448	-----	---	3,970	-----	---	1,046	-----		290,192	74,494
29 AMERICAN BREEDERS SERVICE, INC-----	164	2,379,102	14,507	153	906,264	5,923	0	0	0	0	0	0	0	2,379,102	906,264	
45 ART. INSEM. PROG. OF PUERTO RICO-----	12	28,306	2,359	0	0	0	4	750	188	0	0	0	0	29,056	0	
15 ATLANTIC BREEDERS COOP-----	98	518,425	5,290	12	35,910	2,993	74	44,012	595	32	17,669	552		562,441	53,579	
31 THE BULL BANK-----	46	20,635	449	2	7,612	3,806	42	20,489	488	16	111,057	6,941		41,124	118,669	
11 CARNATION CO. / GENETIC DIV-----	300	705,813	2,353	152	223,698	1,472	212	62,954	297	213	53,505	251		768,767	277,203	
02 *CENTRAL OHIO BREEDING ASSN-----	220	208,845	949	129	62,150	482	79	113,511	1,437	379	220,115	581		322,356	282,265	
52 COLO. ST. U. ANI- MAL REPROD. LAB-----	0	0	0	0	0	0	---	27,310	-----	---	362,839	-----		27,310	362,839	
40 CURTISS BREEDING SERVICE-----	245	1,447,465	5,908	157	477,226	3,040	0	0	0	0	0	0		1,447,465	477,226	
26 EAST CENTRAL BREEDERS ASSN-----	33	89,539	2,713	4	10,053	2,513	50	15,482	310	0	0	0		105,021	10,053	
18 *EAST TENN. ART. BREEDERS ASSN-----	176	29,553	168	73	5,850	80	4	1,729	432	19	3,541	186		31,282	9,391	
03 EASTERN AI COOP-----	157	1,068,080	6,803	11	77,079	7,007	318	52,573	165	34	5,348	157		1,120,653	82,427	
23 EXCELSIOR FARMS-----	29	82,682	2,851	0	0	0	19	6,528	344	---	638	-----		89,210	638	
53 GENERAL GENETICS-----	3	737	246	0	0	0	96	36,894	384	5	2,182	436		37,631	2,182	
54 HAWKEYE BREEDERS SERVICE-----	0	0	0	0	0	0	9	1,900	211	105	104,000	990		1,900	104,000	
27 HEROSMAN. INC-----	23	55,017	2,392	1	1,635	1,635	0	0	0	0	0	0		55,017	1,635	
06 ILLINOIS BREEDING COOP-----	0	0	0	0	0	0	52	32,503	625	109	45,632	419		32,503	45,632	
16 KANSAS ART. BREED- ING SERV. UNIT-----	91	66,765	734	80	38,438	480	32	15,718	491	168	94,167	561		82,483	132,605	
05 *KENTUCKY ART. BREEDING ASSN-----	121	78,837	652	138	40,570	294	23	2,593	113	61	16,839	276		81,430	57,409	
08 LOUISIANA ANIMAL BREEDERS COOP-----	20	55,963	2,798	20	86,551	4,328	1	203	203	30	28,977	966		56,166	115,528	
49**MARYLAND ART. BREEDING COOP-----	52	93,797	1,804	24	10,622	443	0	0	0	0	0	0		93,797	10,622	
04 *MICHIGAN ANIMAL BREEDERS COOP-----	212	202,656	956	122	32,320	265	14	3,307	236	39	16,018	411		205,963	48,338	
21 MIDWEST BREEDERS COOP-----	129	1,068,831	8,286	28	120,084	4,289	88	18,221	207	571	83,209	146		1,087,052	203,293	
17 MINNESOTA VALLEY BREEDERS ASSN-----	102	451,841	4,430	25	69,134	2,765	40	12,290	307	53	14,455	273		464,131	83,589	
10 *MISS. ANIMAL BREEDERS COOP-----	---	40,826	-----	0	0	0	0	0	0	54	17,980	333		40,826	17,980	
57 NEW BREEDS INDUSTRIES-----	0	0	0	114	254,180	2,230	0	0	0	0	0	0		0	254,180	
01 NORA, INC-----	126	405,438	3,218	45	88,958	1,977	101	32,633	323	252	158,180	628		438,071	247,138	
36 NORTH AMERICAN BREEDERS, INC-----	0	0	0	0	0	0	24	13,476	562	102	36,591	359		13,476	36,591	
25**NORTHEASTERN BREEDERS ASSN-----	---	222,291	-----	---	27,114	-----	0	0	0	0	0	0		222,291	27,114	
58 PICNEER BEEF CATTLE CO-----	0	0	0	---	6,294	-----	0	0	0	0	0	0		0	6,294	
07 SELECT SIRE, INC-----	260	228,814	880	51	24,476	480	38	12,996	342	128	55,972	437		241,810	80,448	
09 SIRE POWER, INC-----	92	107,838	1,172	7	2,209	316	38	12,134	319	3	1,784	595		119,972	3,993	
61 SOLIGENICS FROZEN SEMFN SERVICE-----	0	0	0	0	0	0	73	21,300	292	8	1,850	231		21,300	1,850	
42 S.W. AI CUSTOM FREEZING CENTER-----	0	0	0	0	0	0	7	3,885	555	124	72,973	588		3,885	72,973	
48 SYNTAX AGRICUS. / LIVESTOCK GENET DIV	0	0	0	56	107,674	1,923	15	6,021	401	50	49,855	997		6,021	157,529	
20 *TENN. ARTIFICIAL BREEDING ASSN-----	---	35,696	-----	---	13,132	-----	15	6,041	403	84	60,017	714		41,737	73,149	
14 TRI-STATE BREEDERS COOP-----	213	745,673	3,501	23	32,652	1,420	---	20,891	-----	---	2,670	-----		766,564	35,322	
19 *VIRGINIA ANIMAL BREEDERS ASSN-----	---	137,460	-----	---	7,690	-----	41	13,790	336	58	36,734	633		151,250	44,424	
50**W. VIRGINIA ART. BREEDERS COOP-----	50	24,305	486	23	5,252	228	0	0	0	0	0	0		24,305	5,252	
46 WYE PLANTATION-----	0	0	0	23	21,384	930	0	0	0	0	0	0		0	21,384	
UNITED STATES-----		10,887,456			2,869,659			616,104			1,675,843			11,503,560	4,545,502	

1/ DASHES INDICATE INFORMATION NOT REPORTED OR NOT AVAILABLE. 2/ ZEROES INDICATE NO ACTIVITY.
3/ * INDICATES MEMBER OF SELECT SIRE, INC. / ** INDICATES MEMBER OF SIRE POWER, INC.

TABLE 2.--UNITS OF SEMEN SOLD AND CUSTOM-FROZEN IN FY 1974, BY BREED 1/

BREED	UNITS SOLD	UNITS CUSTOM-FROZEN	TOTAL UNITS
DAIRY			
AYRSHIRE-----	86,805	9,830	96,635
BROWN SWISS-----	201,703	26,970	228,673
GUERNSEY-----	408,557	21,922	430,479
HOLSTEIN-----	9,625,177	485,519	10,110,696
JERSEY-----	482,053	37,675	519,728
MILKING SHORTHORN-----	30,287	6,878	37,165
RED AND WHITE-----	12,017	0	12,017
RED DANE-----	31	0	31
MIXED AND UNNAMED-----	40,826	27,310	68,136
TOTAL DAIRY-----	10,887,456	616,104	11,503,560
BEEF			
ANGUS-----	725,809	337,192	1,063,001
BARZONA-----	289	1,054	1,343
BEEF ERIFSIAN-----	90	8,236	8,326
BEEFMASTER-----	374	2,522	2,896
BELTED GALLOWAY-----	0	1,120	1,120
BLONDE D'AQUITANE-----	54,095	467	54,562
BRAHMAN-----	112,427	32,795	145,222
BRANGUS-----	6,450	41,379	47,829
CHAROLAIS-----	124,322	179,763	304,085
CHIANINA-----	121,582	220	121,802
DEVON-----	1,160	2,321	3,481
DEXTER-----	532	0	532
FLECKVIEH-----	42,735	12,049	54,784
GALLOWAY-----	371	539	910
GELB VIEH-----	70,484	3,455	73,939
HAYS CONVERTER-----	4,167	0	4,167
HEREFORD-----	200,205	202,964	403,169
LIMOUSIN-----	96,913	31,160	128,073
LINCOLN RED-----	350	0	350
MAINE-ANJOU-----	184,638	32,069	216,707
MARCHIGANA-----	7,831	0	7,831
MURRAY GREY-----	8,307	14,295	22,602
NORMANDE-----	4,672	0	4,672
NORWEGIAN RED-----	4,553	8,920	13,473
PINZGAUER-----	13,976	0	13,976
POLLED HEREFORD-----	176,041	32,013	208,054
POLLED SHORTHORN-----	6,041	4,165	10,206
RED ANGUS-----	44,048	1,683	45,731
RED BRANGUS-----	1,370	0	1,370
RED DANE-----	12	0	12
RED POLL-----	2,619	618	3,237
RODMAGNOLA-----	5,731	0	5,731
SANTA GERTRUDIS-----	10,063	32,914	42,977
SCOTCH HIGHLAND-----	1,326	0	1,326
SCOTCH SHORTHORN-----	18,722	13,025	31,747
SIMMENTAL-----	772,822	188,716	961,538
SOUTH DEVON-----	152	182	334
TARANTASE-----	32,362	0	32,362
WFLSH BLACK-----	495	0	495
MIXED AND UNNAMED-----	11,523	490,007	501,530
TOTAL BEEF-----	2,869,659	1,675,843	4,545,502
TOTAL UNITS-----	13,757,115	2,291,947	16,049,062

1/ ZEROS INDICATE NO ACTIVITY

TABLE 3.--UNITS OF SEMEN SOLD AND CUSTOM-FROZEN IN FY 1974, BY STATE 1/

STATE	DAIRY		BEEF		TOTAL DAIRY UNITS	TOTAL BEEF UNITS
	SOLD	CUSTOM- FROZEN	SOLD	CUSTOM- FROZEN		
ALABAMA-----	53,980	2,398	28,176	4,762	56,378	32,938
ALASKA-----	2,400	0	136	0	2,400	136
ARIZONA-----	76,918	0	8,784	3,004	76,918	11,788
ARKANSAS-----	28,756	2,039	34,879	20,837	30,795	55,716
CALIFORNIA-----	1,030,190	71,382	68,948	135,263	1,101,572	204,211
COLORADO-----	64,382	0	52,411	3,905	64,382	56,316
CONNECTICUT-----	67,529	1,052	6,023	4,653	68,581	10,676
DELAWARE-----	7,182	0	784	182	7,182	966
FLORIDA-----	265,665	1,810	90,675	19,163	267,475	109,838
GEORGIA-----	81,855	3,790	26,827	22,949	85,645	49,776
HAWAII-----	21,548	0	1,942	342	21,548	2,284
IDaho-----	119,674	2,210	30,331	14,300	121,884	44,631
ILLINOIS-----	99,339	8,423	40,058	22,828	107,762	62,886
INDIANA-----	152,302	40,978	48,830	22,449	193,280	71,279
IOWA-----	251,861	7,788	134,237	59,636	259,649	193,873
KANSAS-----	126,694	15,464	77,205	90,624	142,158	167,829
KENTUCKY-----	120,990	5,373	94,530	26,321	126,363	120,851
LOUISIANA-----	163,012	203	47,192	28,977	163,215	76,169
MAINE-----	71,130	5,958	6,061	0	77,088	6,061
MARYLAND-----	152,624	7,011	17,644	2,741	159,635	20,385
MASSACHUSETTS----	58,921	3,314	6,017	2,908	62,235	8,925
MICHIGAN-----	308,333	18,528	46,675	28,005	326,861	74,680
MINNESOTA-----	905,986	22,953	163,326	5,643	928,939	168,969
MISSISSIPPI-----	65,664	0	19,993	25,296	65,664	45,289
MISSOURI-----	154,907	1,913	105,424	73,206	156,820	178,630
MONTANA-----	18,787	314	189,934	32,996	19,101	222,930
NEBRASKA-----	72,030	3,451	93,891	32,339	75,481	126,230
NEVADA-----	17,776	0	7,264	4,168	17,776	11,432
NEW HAMPSHIRE----	37,543	2,544	3,551	60	40,087	3,611
NEW JERSEY-----	55,107	4,591	7,137	246	59,698	7,383
NEW MEXICO-----	38,289	2,764	13,696	2,558	41,053	16,254
NEW YORK-----	1,012,886	37,826	83,883	14,120	1,050,712	98,003
NORTH CAROLINA----	139,489	1,309	26,385	6,904	140,798	33,289
NORTH DAKOTA-----	68,630	0	68,454	7,082	68,630	75,536
OHIO-----	483,982	62,604	137,955	53,487	546,586	191,442
OKLAHOMA-----	46,211	5,420	52,663	105,391	51,631	158,054
OREGON-----	112,873	3,418	45,563	195	116,291	45,758
PENNSYLVANIA-----	783,332	72,232	105,403	21,639	855,564	127,042
PUERTO RICO-----	90,039	750	1,360	0	90,789	1,360
RHODE ISLAND-----	4,297	0	402	0	4,297	402
SOUTH CAROLINA----	47,035	2,320	11,390	2,821	49,355	14,211
SOUTH DAKOTA-----	82,765	3,981	97,473	48,322	86,746	145,795
TENNESSEE-----	117,826	4,301	48,260	48,879	122,127	97,139
TEXAS-----	138,267	10,026	185,349	189,650	148,293	374,999
UTAH-----	91,664	7,835	16,056	9,786	99,499	25,842
VERMONT-----	193,706	7,873	16,453	632	201,579	17,085
VIRGIN ISLANDS----	50	0	0	0	50	0
VIRGINIA-----	176,448	16,393	24,650	34,858	192,841	59,508
WASHINGTON-----	220,769	4,520	84,455	10,463	225,289	94,918
WEST VIRGINIA-----	37,561	5,415	9,913	4,961	42,976	14,874
WISCONSIN-----	1,979,841	68,132	354,153	10,981	2,047,973	365,134
WYOMING-----	9,048	0	35,244	3,455	9,048	38,699
UNNAMED STATES----	284,497	54,631	133,911	415,766	339,128	549,677

1/ ZEROS INDICATE NO ACTIVITY.

TABLE 4.--DAIRY BULLS, UNITS OF SEMEN SOLD, AND UNITS OF SEMEN CUSTOM-FROZEN IN FY 1974, BY AI ORGANIZATION WITHIN BREED 1/ 2/

		UNITS SOLO			UNITS CUSTOM-FROZEN			
AI CODE	BREED AND AI ORGANIZATION NAME	BULLS	UNITS	AVG./ BULL	BULLS	UNITS	AVG./ BULL	TOTAL UNITS
AYRSRIRE								
29	AMERICAN BREEDERS SERVICE, INC-----	3	10,732	3,577	0	0	0	10,732
15	ATLANTIC BREEDERS COOP-----	3	1,596	532	4	2,111	528	3,707
11	CARNATION CO./GENETIC OIV-----	5	1,336	267	3	777	259	2,113
02	*CENTRAL DRIO BREEDING ASSN-----	2	957	479	0	0	0	957
40	CURTISS BREEDING SERVICE-----	7	14,271	2,039	0	0	0	14,271
18	*EAST TENN. ART. BREEDERS ASSN-----	3	150	50	0	0	0	150
03	EASTERN A. I. CDDP-----	13	34,024	2,617	15	2,448	163	36,472
54	HAWKEYE BREEDERS SERVICE-----	0	0	0	2	300	150	300
06	ILLINOIS BREEDING CDDP-----	0	0	0	1	89	89	89
16	KANSAS ART. BREEDING SERV. UNIT-----	6	337	56	2	269	135	606
05	*KENTUCKY ART. BREEDING ASSN-----	10	583	58	0	0	0	583
49**	MARYLAND ART. BREEDING CDDP-----	4	1,250	313	0	0	0	1,250
04	*MICHIGAN ANIMAL BREEDERS CDDP-----	11	691	63	0	0	0	691
17	MINNESOTA VALLEY BREEDERS ASSN-----	5	3,093	619	0	0	0	3,093
01	NORA, INC-----	0	0	0	2	812	406	812
25**	NORTHEASTERN BREEDERS ASSN-----	---	1,763	---	0	0	0	1,763
07	SELECT SIRES, INC-----	3	1,728	576	0	0	0	1,728
09	SIRE POWER, INC-----	6	11,860	1,977	0	0	0	11,860
61	SOLIGENICS FROZEN SEMEN SERVICE-----	0	0	0	5	1,500	300	1,500
20	*TENN. ART. BREEDING ASSN-----	---	179	---	1	290	290	469
14	TRI-STATE BREEDERS COOP-----	2	842	421	---	204	---	1,046
19	*VIRGINIA ANIMAL BREEDERS ASSN-----	---	1,117	---	4	1,030	258	2,147
50**	W. VIRGINIA ART. BREEDERS CDDP-----	4	296	74	0	0	0	296
BROWN SWISS								
29	AMERICAN BREEDERS SERVICE, INC-----	5	36,325	7,265	0	0	0	36,325
15	ATLANTIC BREEDERS COOP-----	1	2,406	2,406	3	1,189	396	3,595
11	CARNATION CO./GENETIC OIV-----	10	27,457	2,746	5	1,039	208	28,496
02	*CENTRAL DRIO BREEDING ASSN-----	11	2,214	201	4	5,446	1,362	7,660
40	CURTISS BREEDING SERVICE-----	6	29,569	4,928	0	0	0	29,569
26	EAST CENTRAL BREEDERS ASSN-----	3	708	236	0	0	0	708
18	*EAST TENN. ART. BREEDERS ASSN-----	6	619	103	0	0	0	619
03	EASTERN A. I. CDDP-----	11	1,753	159	9	1,912	212	3,665
53	GENERAL GENETICS-----	0	0	0	3	782	261	782
54	HAWKEYE BREEDERS SERVICE-----	0	0	0	2	450	225	450
27	REOSMAN, INC-----	2	1,005	503	0	0	0	1,005
06	ILLINOIS BREEDING CDDP-----	0	0	0	4	349	87	349
16	KANSAS ART. BREEDING SERV. UNIT-----	9	4,969	552	0	0	0	4,969
05	*KENTUCKY ART. BREEDING ASSN-----	10	2,676	268	3	420	140	3,096
49**	MARYLAND ART. BREEDING CDDP-----	5	520	104	0	0	0	520
04	*MICHIGAN ANIMAL BREEDERS COOP-----	9	1,603	178	0	0	0	1,603
21	MIDWEST BREEDERS COOP-----	8	18,095	2,262	3	614	205	18,709
17	MINNESOTA VALLEY BREEDERS ASSN-----	4	4,263	1,066	0	0	0	4,263
01	NORA, INC-----	8	16,361	2,045	6	2,303	384	18,664
36	NORTH AMERICAN BREEDERS, INC-----	0	0	0	1	1,005	1,005	1,005
25**	NORTHEASTERN BREEDERS ASSN-----	---	1,618	---	0	0	0	1,618
07	SELECT SIRES, INC-----	14	9,067	648	0	0	0	9,067
09	SIRE POWER, INC-----	2	23,852	11,926	1	245	245	24,097
61	SOLIGENICS FROZEN SEMEN SERVICE-----	0	0	0	1	100	100	100
42	S.W. AI CUSTOM-FREEZING CENTER-----	0	0	0	1	942	942	942
48	SYNTEX AGRICULT./LIVESTOCK GENET. DIV	0	0	0	1	273	273	273
20	*TENN. ART. BREEDING ASSN-----	---	1,621	---	0	0	0	1,621
14	TRI-STATE BREEDERS CDDP-----	15	13,607	907	---	9,901	---	23,508
19	*VIRGINIA ANIMAL BREEDERS ASSN-----	---	1,098	---	0	0	0	1,098
50**	W. VIRGINIA ART. BREEDERS CDDP-----	5	297	59	0	0	0	297
GUERNSEY								
13	*ALL WEST BREEDERS-----	---	10,288	---	---	2,198	---	12,486
29	AMERICAN BREEDERS SERVICE, INC-----	16	98,947	6,184	0	0	0	98,947
15	ATLANTIC BREEDERS COOP-----	15	27,559	1,837	3	375	125	27,934
11	CARNATION CO./GENETIC OIV-----	8	8,894	1,112	17	5,554	327	14,448
02	*CENTRAL DRIO BREEDING ASSN-----	22	8,017	364	10	1,577	158	9,594
40	CURTISS BREEDING SERVICE-----	11	42,042	3,822	0	0	0	42,042
26	EAST CENTRAL BREEDERS ASSN-----	1	645	645	1	160	160	805
18	*EAST TENN. ART. BREEDERS ASSN-----	20	1,948	97	0	0	0	1,948
03	EASTERN A. I. CDDP-----	11	41,405	3,764	6	882	147	42,287
53	GENERAL GENETICS-----	0	0	0	8	2,539	317	2,539
27	REOSMAN, INC-----	1	2,650	2,650	0	0	0	2,650

TABLE 4.--DAIRY BULLS, UNITS OF SEMEN SOLD, AND UNITS OF SEMEN CUSTOM-FROZEN IN FY 1974, BY AI ORGANIZATION WITHIN BREED 1/ 2/

		UNITS SOLD			UNITS CUSTOM-FROZEN			
AI CODE	BREED AND AI ORGANIZATION NAME	BULLS	UNITS	AVG./ BULL	BULLS	UNITS	AVG./ BULL	TOTAL UNITS

GUERNSEY --CONT'D.								
06	ILLINOIS BREEDING COOP-----	0	0	0	3	462	154	462
16	KANSAS ART. BREEDING SERV. UNIT-----	12	757	63	2	449	225	1,206
05	*KENTUCKY ART. BREEDING ASSN.-----	14	3,343	239	2	156	78	3,499
08	LOUISIANA ANIMAL BREEDERS COOP.-----	3	425	142	0	0	0	425
49**	MARYLAND ART. BREEDING COOP.-----	7	3,645	521	0	0	0	3,645
04	*MICHIGAN ANIMAL BREEDERS COOP.-----	31	8,139	263	0	0	0	8,139
21	MIDWEST BREEDERS COOP.-----	13	42,053	3,235	14	2,480	177	44,533
17	MINNESOTA VALLEY BREEDERS ASSN.-----	5	15,894	3,179	0	0	0	15,894
01	NOBA, INC-----	15	14,874	992	11	2,412	219	17,286
25**	NORTHEASTERN BREEDERS ASSN.-----	---	6,674	-----	0	0	0	6,674
07	SELECT SIRE, INC-----	25	13,934	557	2	206	103	14,140
09	SIRE POWER, INC-----	6	743	124	1	348	348	1,091
61	SOLIGENICS FROZEN SEMEN SERVICE-----	0	0	0	1	200	200	200
20	*TENN. ART. BREEDING ASSN.-----	---	934	-----	0	0	0	934
14	TRI-STATE BREEDERS COOP-----	30	46,413	1,547	---	1,128	-----	47,541
19	*VIRGINIA ANIMAL BREEDERS ASSN.-----	---	6,856	-----	4	796	199	7,652
50**	W. VIRGINIA ART. BREEDERS COOP-----	7	1,478	211	0	0	0	1,478
HOLSTEIN								
13	*ALL WEST BREEDERS-----	---	257,246	-----	---	1,178	-----	258,424
29	AMERICAN BREEDERS SERVICE, INC-----	110	2,128,575	19,351	0	0	0	2,128,575
45	ART. INSEM. PROG. OF PUERTO RICO---	12	28,306	2,359	4	750	188	29,056
15	ATLANTIC BREEDERS COOP-----	69	439,470	6,369	62	39,050	630	478,520
31	THE BULL BANK-----	45	20,503	456	39	19,500	500	40,003
11	CARNATION CO./GENETIC DIV.-----	247	651,621	2,638	173	53,348	308	704,969
02	*CENTRAL OHIO BREEDING ASSN.-----	159	187,262	1,178	52	103,424	1,989	290,686
40	CURTISS BREEDING SERVICE-----	205	1,286,309	6,275	0	0	0	1,286,309
26	EAST CENTRAL BREEDERS ASSN.-----	29	88,186	3,041	49	15,322	313	103,508
18	*EAST TENN. ART. BREEDERS ASSN.-----	121	25,023	207	4	1,729	432	26,752
03	EASTERN A. I. COOP-----	108	915,079	8,473	250	41,372	165	956,451
23	EXCELSIOR FARMS-----	29	82,682	2,851	19	6,528	344	89,210
53	GENERAL GENETICS-----	3	737	246	78	32,670	419	33,407
54	RAWKEYE BREEDERS SERVICE-----	0	0	0	4	900	225	900
27	HERDSMAN, INC-----	18	48,799	2,711	0	0	0	48,799
06	ILLINOIS BREEDING COOP-----	0	0	0	38	30,428	801	30,428
16	KANSAS ART. BREEDING SERV. UNIT-----	50	59,782	1,196	28	15,000	536	74,782
05	*KENTUCKY ART. BREEDING ASSN.-----	58	66,470	1,146	14	1,187	85	67,657
08	LOUISIANA ANIMAL BREEDERS COOP.-----	12	53,976	4,498	1	203	203	54,179
49**	MARYLAND ART. BREEDING COOP.-----	24	87,337	3,639	0	0	0	87,337
04	*MICHIGAN ANIMAL BREEDERS COOP.-----	128	186,474	1,457	13	3,099	238	189,573
21	MIDWEST BREEDERS COOP.-----	99	991,467	10,015	53	12,498	236	1,003,965
17	MINNESOTA VALLEY BREEDERS ASSN.-----	76	412,635	5,429	38	11,636	306	424,271
01	NOBA, INC-----	67	300,228	4,481	67	23,113	345	323,341
36	NORTH AMERICAN BREEDERS, INC-----	0	0	0	14	5,996	428	5,996
25**	NORTHEASTERN BREEDERS ASSN.-----	---	205,001	-----	0	0	0	205,001
07	SELECT SIRE, INC-----	194	196,793	1,014	31	11,364	367	208,157
09	SIRE POWER, INC-----	73	69,057	946	35	10,641	304	79,698
61	SOLIGENICS FROZEN SEMEN SERVICE-----	0	0	0	56	16,800	300	16,800
42	S.W. AI CUSTOM-FREEZING CENTER-----	0	0	0	4	767	192	767
48	SYNTEX AGRIBUS./LIVESTOCK GENET. DIV	0	0	0	10	2,395	240	2,395
20	*TENN. ART. BREEDING ASSN.-----	---	28,685	-----	7	3,990	570	32,675
14	TRI-STATE BREEDERS COOP-----	152	660,775	4,347	---	8,667	-----	669,442
19	*VIRGINIA ANIMAL BREEDERS ASSN.-----	---	125,412	-----	33	11,964	363	137,376
50**	W. VIRGINIA ART. BREEDERS COOP-----	22	21,287	968	0	0	0	21,287
JERSEY								
13	*ALL WEST BREEDERS-----	---	17,498	-----	---	594	-----	18,092
29	AMERICAN BREEDERS SERVICE, INC-----	29	100,177	3,454	0	0	0	100,177
15	ATLANTIC BREEDERS COOP-----	7	36,905	5,272	2	1,287	644	38,192
31	THE BULL BANK-----	1	132	132	3	989	330	1,121
11	CARNATION CO./GENETIC DIV.-----	27	15,945	591	13	2,157	166	18,102
02	*CENTRAL OHIO BREEDING ASSN.-----	23	9,958	433	12	2,907	242	12,865
40	CURTISS BREEDING SERVICE-----	13	69,557	5,351	0	0	0	69,557
18	*EAST TENN. ART. BREEDERS ASSN.-----	26	1,813	70	0	0	0	1,813
03	EASTERN A. I. COOP-----	14	75,819	5,416	38	5,959	157	81,778
53	GENERAL GENETICS-----	0	0	0	7	903	129	903
27	HERDSMAN, INC-----	2	2,563	1,282	0	0	0	2,563
06	ILLINOIS BREEDING COOP-----	0	0	0	2	220	110	220
16	KANSAS ART. BREEDING SERV. UNIT-----	10	630	63	0	0	0	630
05	*KENTUCKY ART. BREEDING ASSN.-----	24	5,473	228	3	725	242	6,198

TABLE 4.--DAIRY RULLS, UNITS OF SEMEN SOLD, AND ONITS OF SEMEN COSTOM-FROZEN IN FY 1974, BY AI OBGANIZATION WITBIN RBEED 1/ 2/

		UNITS SOLD			UNITS CUSTOM-FROZEN				
AI CODE	BREED AND AI ORGANIZATION NAME	ROLLS	UNITS	AVG./ BULL	ROLLS	UNITS	AVG./ BOLL	TOTAL UNITS	

JEBSEY --CONT'D.									
08	LOUISIANA ANIMAL BREEDERS COOP.-----	5	1,562	312	0	0	0	1,562	
49**	MARYLAND ART. BREEDING COOP.-----	10	833	83	0	0	0	833	
04	*MICHIGAN ANIMAL BREEDERS COOP.-----	26	3,964	152	1	208	208	4,172	
21	MIDWEST BBEEDERS COOP.-----	6	13,803	2,301	13	1,304	100	15,107	
17	MINNESOTA VALLEY BBEEDERS ASSN.-----	4	3,540	885	0	0	0	3,540	
01	NOBA, INC-----	36	73,975	2,055	15	3,993	266	77,968	
36	NORTH AMERICAN BBEEDERS, INC-----	0	0	0	9	6,475	719	6,475	
25**	NORTREASTERN BREEDERS ASSN.-----	---	7,235	-----	0	0	0	7,235	
07	SELECT SIREs, INC-----	22	6,857	312	5	1,426	285	8,283	
09	SIRE POWER, INC-----	5	2,326	465	1	900	900	3,226	
61	SOLIGENICS FROZEN SEMEN SERVICE-----	0	0	0	10	2,700	270	2,700	
42	S.W. AI CUSTOM-FREEZING CENTER-----	0	0	0	2	2,176	1,088	2,176	
20	*TENN. ART. BREEDING ASSN.-----	---	4,277	-----	7	1,761	252	6,038	
14	TRI-STATE BREEDERS COOP-----	13	23,597	1,815	---	991	-----	24,588	
19	*VIRGINIA ANIMAL BREEDERS ASSN.-----	---	2,727	-----	0	0	0	2,727	
50**	W. VIRGINIA ART. BREEDERS COOP-----	10	887	89	0	0	0	887	
MILKING SHORTHORN									
13	*ALL WEST BBEEDERS-----	---	1,190	-----	0	0	0	1,190	
29	AMERICAN BBEEDBS SERVICE, INC-----	1	4,346	4,346	0	0	0	4,346	
11	CARNATION CO./GENETIC DIV.-----	3	560	187	1	79	79	639	
02	*CENTRAL OBIO BREEDING ASSN.-----	2	406	203	1	157	157	563	
40	CURTISS BREEDING SERVICE-----	3	5,717	1,906	0	0	0	5,717	
54	HAWKEYE BBEEDBS SERVICE-----	0	0	0	1	250	250	250	
06	ILLINOIS BREEDING COOP-----	0	0	0	4	955	239	955	
16	KANSAS ART. BREEDING SERV. UNIT-----	4	290	73	0	0	0	290	
05	*KENTUCKY ART. BREEDING ASSN.-----	5	292	58	1	105	105	397	
49**	MARYLAND ART. BREEDING COOP.-----	2	212	106	0	0	0	212	
04	*MICHIGAN ANIMAL BREEDERS COOP.-----	4	261	65	0	0	0	261	
21	MIDWEST BBEEDERS COOP.-----	3	3,413	1,138	5	1,325	265	4,738	
17	MINNESOTA VALLEY BBEEDBS ASSN.-----	8	12,416	1,552	2	654	327	13,070	
07	SELECT SIREs, INC-----	2	435	218	0	0	0	435	
48	SYNTEX AGRISOS./LIVESTOCK GENET. DIV	0	0	0	4	3,353	838	3,353	
14	TRI-STATE BREEDERS COOP-----	1	439	439	0	0	0	439	
19	*VIRGINIA ANIMAL BREEDERS ASSN.-----	---	250	-----	0	0	0	250	
50**	W. VIRGINIA ART. BREEDERS COOP-----	2	60	30	0	0	0	60	
RED AND WHITE									
15	ATLANTIC BBEEDERS COOP-----	3	10,493	3,498	0	0	0	10,493	
04	*MICHIGAN ANIMAL BREEDERS COOP.-----	3	1,524	508	0	0	0	1,524	
RED DANE									
02	*CENTRAL OBIO BREEDING ASSN.-----	1	31	31	0	0	0	31	
MIXED AND ONNAMED									
52	COLO. ST. O. REPROD. LAB.-----	0	0	0	---	27,310	-----	27,310	
10	*MISSISSIPPI ANIMAL BBEEDBS COOP.---	---	40,826	-----	0	0	0	40,826	

1/ DASHES INDICATE INFORMATION NOT REPORTED OR NOT AVAILABLE.

2/ ZEROS INDICATE NO ACTIVITY.

TABLE 5.--BEEF BULLS, UNITS OF SEMEN SOLD, AND UNITS OF SEMEN CUSTOM-FROZEN IN FY 1974, BY AI ORGANIZATION WITHIN BREED 1/ 2/

AI CODE	BREED AND AI ORGANIZATION NAME	UNITS SOLD			UNITS CUSTOM-FROZEN			TOTAL UNITS
		BULLS	UNITS	AVG./ BOLL	BULLS	UBITS	AVG./ BULL	
ANGUS								
13	*ALL WEST BREEDERS-----	---	30,017	-----	0	0	0	30,017
29	AMERICAN BREEDEBS SERVICE, INC-----	14	158,246	11,303	0	0	0	158,246
15	ATLANTIC BREEDEBS COOP-----	4	19,992	4,998	4	1,453	363	21,445
11	CARNATION CO./GENETIC DIV-----	13	23,469	1,805	84	21,430	255	44,899
02	*CENTRAL OHIO BREEDING ASSN-----	23	14,316	622	45	25,479	566	39,795
40	CUBTISS BREEDING SERVICE-----	29	135,739	4,681	0	0	0	135,739
26	EAST CENTRAL BREEDERS ASSN-----	4	10,053	2,513	0	0	0	10,053
18	*EAST TENN. ART. BREEDEBS ASSN-----	13	2,162	166	13	1,991	153	4,153
03	EASTERN A. I. COOP-----	6	54,856	9,143	22	3,024	137	57,880
53	GENERAL GENETICS-----	0	0	0	2	1,670	835	1,670
54	HAWKEYE BREEDERS SERVICE-----	0	0	0	55	80,000	1,455	80,000
27	HEEDSMAN, INC-----	1	1,635	1,635	0	0	0	1,635
06	ILLINOIS BREEDING COOP-----	0	0	0	59	18,530	314	18,530
16	KANSAS ART. BREEDING SERV. UNIT-----	6	6,911	1,152	29	10,045	346	16,956
05	*KENTUCKY ART. BREEDING ASSN-----	20	8,998	450	15	1,583	106	10,581
08	LOUISIANA ANIMAL BREEDERS COOP-----	5	18,828	3,766	8	3,902	488	22,730
49**	MARYLAND ART. BREEDING COOP-----	4	5,936	1,484	0	0	0	5,936
04	*MICHIGAN ANIMAL BBEEDERS COOP-----	21	10,416	496	25	13,116	525	23,532
21	MIDWEST BREEDERS COOP-----	13	74,728	5,748	193	25,321	131	100,049
17	MINNESOTA VALLEY BBEEDERS ASSN-----	7	33,176	4,739	14	3,517	251	36,693
10	*MISSISSIPPI ANIMAL BREEDERS COOP-----	0	0	0	15	2,409	161	2,409
01	NOBA, INC-----	7	27,829	3,976	74	56,801	768	84,630
36	NORTH AMERICAN BBEEDERS, INC-----	0	0	0	52	16,124	310	16,124
25**	NORTHEASTERN BREEDEBS ASSN-----	---	16,121	-----	0	0	0	16,121
58	PIONEER BEEF CATTLE CO-----	4	245	61	0	0	0	245
07	SELECT SIBES, INC-----	17	9,212	542	19	5,610	295	14,822
09	SIRE POWER, INC-----	3	100	33	0	0	0	100
61	SOLIGENICS FBOZEN SEMEN SERVICE-----	0	0	0	2	1,200	600	1,200
42	S.W. AI CUSTOM-FREEZING CENTER-----	0	0	0	20	9,791	490	9,791
48	SYNTEX AGBIBUS./LIVESTOCK GENET. DIV	9	6,495	722	6	4,412	735	10,907
20	*TENN. ART. BREEDING ASSN-----	---	5,720	-----	25	14,664	587	20,384
14	TRI-STATE BREEDERS COOP-----	16	22,331	1,396	---	1,670	-----	24,001
19	*VIRGINIA ANIMAL BBEEDERS ASSN-----	---	5,119	-----	20	13,450	673	18,569
50**	W. VIRGINIA ART. BREEDERS COOP-----	4	1,775	444	0	0	0	1,775
46	WYE PLANTATION-----	23	21,384	930	0	0	0	21,384
BARZONA								
40	CORTISS BREEDING SERVICE-----	1	289	289	0	0	0	289
42	S.W. AI CUSTOM-FBEEZING CENTEB-----	0	0	0	1	1,054	1,054	1,054
BEEF FRIESIAN								
40	CUBTISS BREEDING SERVICE-----	2	90	45	0	0	0	90
16	KANSAS ART. BREEDING SERV. UNIT-----	0	0	0	6	964	161	964
20	*TENN. ART. BREEDING ASSN-----	0	0	0	10	6,338	634	6,338
19	*VIRGINIA ANIMAL BBEEDERS ASSN-----	0	0	0	1	934	934	934
BEEFMASTER								
02	*CENTRAL OHIO BREEDING ASSN-----	1	155	155	0	0	0	155
18	*EAST TENN. ART. BBEEDERS ASSN-----	1	24	24	0	0	0	24
08	LOUISIANA ANIMAL BREEDERS COOP-----	0	0	0	2	170	85	170
04	*MICHIGAN ANIMAL BBEEDERS COOP-----	1	12	12	0	0	0	12
48	SYNTEX AGBIBUS./LIVESTOCK GENET. DIV	4	152	38	4	2,352	588	2,504
20	*TENN. ART. BREEDING ASSN-----	---	25	-----	0	0	0	25
19	*VIRGINIA ANIMAL BBEEDERS ASSN-----	---	6	-----	0	0	0	6
BELTED GALLOWAY								
36	NORTH AMERICAN BBEEDERS, INC-----	0	0	0	1	1,120	1,120	1,120
BLONDE D'AQUITANE								
13	*ALL WEST BREEDERS-----	---	1,382	-----	0	0	0	1,382
11	CABNATION CO./GENETIC DIV-----	4	19,230	4,808	0	0	0	19,230
02	*CENTRAL OHIO BBEEDING ASSN-----	4	750	188	2	467	234	1,217

TABLE 5.--BEEF BOLLS, UNITS OF SEMEN SOLD, AND UNITS OF SEMEN CUSTOM-FROZEN IN FY 1974, BY AI ORGANIZATION WITHIN BREED 1/ 2/

AI CODE	BREED AND AI ORGANIZATION NAME	UNITS SOLD			UNITS CUSTOM-FROZEN			TOTAL ONITS
		BOLLS	UNITS	AVG./ BULL	BOLLS	UNITS	AVG./ BULL	
BLONDE D'AQUITAINE --CONT'D.								
40	CURTISS BREEDING SERVICE-----	2	10,229	5,115	0	0	0	10,229
18	*EAST TENN. ART. BREEDERS ASSN.-----	1	2	2	0	0	0	2
16	KANSAS ART. BREEDING SERV. UNIT-----	2	187	94	0	0	0	187
05	*KENTUCKY ART. BREEDING ASSN.-----	2	673	337	0	0	0	673
04	*MICHIGAN ANIMAL BREEDERS COOP.-----	2	160	80	0	0	0	160
57	NEW BREEDS INDUSTRIES-----	2	10,746	5,373	0	0	0	10,746
48	SYNTEX AGRIBUS./LIVESTOCK GENET. DIV	3	10,534	3,511	0	0	0	10,534
20	*TENN. ART. BREEDING ASSN.-----	---	202	----	0	0	0	202
BRABMAN								
29	AMERICAN BREEDERS SERVICE, INC-----	4	16,389	4,097	0	0	0	16,389
11	CARNATION CO./GENETIC DIV.-----	6	3,406	568	1	349	349	3,755
02	*CENTRAL OHIO BREEDING ASSN.-----	2	2,213	1,107	26	21,428	824	23,641
40	CORTISS BREEDING SERVICE-----	3	4,155	1,385	0	0	0	4,155
18	*EAST TENN. ART. BREEDERS ASSN.-----	1	32	32	0	0	0	32
05	*KENTUCKY ART. BREEDING ASSN.-----	2	44	22	0	0	0	44
08	LOUISIANA ANIMAL BREEDERS COOP.-----	7	63,097	9,014	6	5,984	997	69,081
04	*MICHIGAN ANIMAL BREEDERS COOP.-----	1	26	26	0	0	0	26
01	NOBA, INC-----	5	21,853	4,371	5	3,877	775	25,730
07	SELECT SIRE, INC-----	2	861	431	0	0	0	861
42	S.W. AI CUSTOM-FREEZING CENTER-----	0	0	0	3	1,157	386	1,157
48	SYNTEX AGRIBUS./LIVESTOCK GENET. DIV	3	313	104	0	0	0	313
20	*TENN. ART. BREEDING ASSN.-----	---	28	----	0	0	0	28
19	*VIRGINIA ANIMAL BREEDERS ASSN.-----	---	10	----	0	0	0	10
BRANGUS								
29	AMERICAN BREEDERS SERVICE, INC-----	1	3,080	3,080	0	0	0	3,080
11	CARNATION CO./GENETIC DIV.-----	1	1,658	1,658	5	2,929	586	4,587
02	*CENTRAL OHIO BREEDING ASSN.-----	2	264	132	14	34,770	2,484	35,034
40	CORTISS BREEDING SERVICE-----	2	285	143	0	0	0	285
10	*MISSISSIPPI ANIMAL BREEDERS COOP.-----	0	0	0	2	678	339	678
01	NOBA, INC-----	2	1,163	582	4	3,002	751	4,165
CBABOLAIS								
13	*ALL WEST BREEDERS-----	---	5,917	----	0	0	0	5,917
29	AMERICAN BREEDERS SERVICE, INC-----	16	39,769	2,486	0	0	0	39,769
15	ATLANTIC BREEDERS COOP-----	4	1,382	346	7	4,767	681	6,149
11	CARNATION CO./GENETIC DIV.-----	9	4,556	506	13	3,904	300	8,460
02	*CENTRAL OHIO BREEDING ASSN.-----	11	4,903	446	27	11,213	415	16,116
40	CURTISS BREEDING SERVICE-----	12	26,626	2,219	0	0	0	26,626
18	*EAST TENN. ART. BREEDERS ASSN.-----	9	737	82	3	1,064	355	1,801
03	EASTERN A. I. COOP-----	0	0	0	1	92	92	92
53	GENERAL GENETICS-----	0	0	0	2	350	175	350
54	SAWKEYE BREEDERS SERVICE-----	0	0	0	15	7,500	500	7,500
06	ILLINOIS BREEDING COOP-----	0	0	0	13	14,082	1,083	14,082
16	KANSAS ART. BREEDING SERV. UNIT-----	5	1,123	225	26	15,256	587	16,379
05	*KENTUCKY ART. BREEDING ASSN.-----	16	4,290	268	15	6,278	419	10,568
08	LOUISIANA ANIMAL BREEDERS COOP.-----	3	2,028	676	0	0	0	2,028
49**	MARYLAND ART. BREEDING COOP.-----	2	833	417	0	0	0	833
04	*MICHIGAN ANIMAL BREEDERS COOP.-----	12	3,070	256	2	260	130	3,330
21	MIDWEST BREEDERS COOP.-----	5	9,152	1,830	73	10,628	146	19,780
17	MINNESOTA VALLEY BREEDERS ASSN.-----	4	5,748	1,437	2	710	355	6,458
10	*MISSISSIPPI ANIMAL BREEDERS COOP.-----	0	0	0	6	4,800	800	4,800
57	NEW BREEDS INDUSTRIES-----	7	1,290	184	0	0	0	1,290
01	NOBA, INC-----	8	5,380	673	30	33,043	1,101	38,423
36	NORTH AMERICAN BREEDERS, INC-----	0	0	0	22	7,979	363	7,979
25**	NORTHEASTERN BREEDERS ASSN.-----	---	2,594	----	0	0	0	2,594
58	PIONEER BEEF CATTLE CO.-----	1	13	13	0	0	0	13
07	SELECT SIRE, INC-----	7	1,627	232	11	2,338	213	3,965
09	SIDE POWER, INC-----	0	0	0	2	1,538	769	1,538
42	S.W. AI CUSTOM-FREEZING CENTER-----	0	0	0	55	32,245	586	32,245
48	SYNTEX AGRIBUS./LIVESTOCK GENET. DIV	6	612	102	12	6,979	582	7,591
20	*TENN. ART. BREEDING ASSN.-----	---	1,002	----	8	6,432	804	7,434
14	TRI-STATE BREEDERS COOP-----	1	29	29	---	144	----	173
19	*VIRGINIA ANIMAL BREEDERS ASSN.-----	---	754	----	10	8,161	816	8,915
50**	W. VIRGINIA ART. BREEDERS COOP-----	2	887	444	0	0	0	887

TABLE 5.--BEEF BULLS, UNITS OF SEMEN SOLD, AND UNITS OF SEMEN CUSTOM-FROZEN IN FY 1974, BY AI ORGANIZATION WITHIN BREED 1/ 2/

AI CODE	BREED AND AI ORGANIZATION NAME	UNITS SOLD			UNITS CUSTOM-FROZEN			TOTAL UNITS
		BULLS	UNITS	AVG./ ROLL	BULLS	UNITS	AVG./ ROLL	
CHIANINA								
13	*ALL WEST BREEDERS-----	---	2,429	-----	0	0	0	2,429
29	AMERICAN BREEDERS SERVICE, INC-----	13	46,591	3,584	0	0	0	46,591
11	CARNATION CO./GENETIC DIV.-----	6	2,402	400	0	0	0	2,402
02	*CENTRAL OHIO BREEDING ASSN.-----	11	8,909	810	2	165	83	9,074
40	CORTISS BREEDING SERVICE-----	9	16,181	1,798	0	0	0	16,181
18	*EAST TENN. ART. BREEDERS ASSN.-----	4	288	72	0	0	0	288
16	KANSAS ART. BREEDING SERV. UNIT-----	8	1,998	250	1	55	55	2,053
05	*KENTUCKY ART. BREEDING ASSN.-----	12	4,549	379	0	0	0	4,549
49**	MARYLAND ART. BREEDING COOP.-----	3	67	22	0	0	0	67
04	*MICHIGAN ANIMAL BREEDERS COOP.-----	9	1,696	188	0	0	0	1,696
57	NEW BREEDS INDUSTRIES-----	9	25,046	2,783	0	0	0	25,046
48	SYNTEX AGRIBIOS./LIVESTOCK GENET. DIV	1	9,954	9,954	0	0	0	9,954
20	*TENN. ART. BREEDING ASSN.-----	---	1,472	-----	0	0	0	1,472
DEVON								
40	CURTISS BREEDING SERVICE-----	1	1,160	1,160	0	0	0	1,160
36	NORTH AMERICAN BREEDERS, INC-----	0	0	0	2	682	341	682
07	SELECT SIREs, INC-----	0	0	0	1	1,639	1,639	1,639
DEXTER								
40	CORTISS BREEDING SERVICE-----	2	532	266	0	0	0	532
FLECKVIER								
13	*ALL WEST BREEDERS-----	---	726	-----	0	0	0	726
11	CARNATION CO./GENETIC DIV.-----	26	39,915	1,535	0	0	0	39,915
01	NOBA, INC-----	1	2,094	2,094	4	1,085	271	3,179
20	*TENN. ART. BREEDING ASSN.-----	0	0	0	5	10,964	2,193	10,964
GALLOWAY								
40	CORTISS BREEDING SERVICE-----	1	371	371	0	0	0	371
42	S.W. AI CUSTOM-FREEZING CENTER-----	0	0	0	2	539	270	539
GELBVIEH								
29	AMERICAN BREEDERS SERVICE, INC-----	4	30,895	7,724	0	0	0	30,895
11	CARNATION CO./GENETIC DIV.-----	28	30,936	1,105	0	0	0	30,936
02	*CENTRAL OHIO BREEDING ASSN.-----	2	79	40	0	0	0	79
40	CURTISS BREEDING SERVICE-----	3	706	235	0	0	0	706
18	*EAST TENN. ART. BREEDERS ASSN.-----	1	53	53	0	0	0	53
16	KANSAS ART. BREEDING SERV. UNIT-----	2	137	69	1	3,455	3,455	3,592
04	*MICHIGAN ANIMAL BREEDERS COOP.-----	2	18	9	0	0	0	18
57	NEW BREEDS INDUSTRIES-----	2	5,407	2,704	0	0	0	5,407
48	SYNTEX AGRIBIOS./LIVESTOCK GENET. DIV	1	2,253	2,253	0	0	0	2,253
HAYS CONVERTER								
29	AMERICAN BREEDERS SERVICE, INC-----	3	4,167	1,389	0	0	0	4,167
HEREFORD								
13	*ALL WEST BREEDERS-----	---	16,608	-----	---	807	-----	17,415
29	AMERICAN BREEDERS SERVICE, INC-----	6	21,083	3,514	0	0	0	21,083
15	ATLANTIC BREEDERS COOP-----	4	14,536	3,634	21	11,449	545	25,985
11	CARNATION CO./GENETIC DIV.-----	7	4,404	629	49	11,830	241	16,234
02	*CENTRAL OHIO BREEDING ASSN.-----	16	10,310	644	59	25,532	433	35,842
40	CORTISS BREEDING SERVICE-----	11	17,840	1,622	0	0	0	17,840
18	*EAST TENN. ART. BREEDERS ASSN.-----	1	35	35	0	0	0	35
03	EASTERN A. I. COOP-----	5	22,223	4,445	8	938	117	23,161
53	GENERAL GENETICS-----	0	0	0	1	162	162	162
54	RAWKEYE BREEDERS SERVICE-----	0	0	0	21	10,000	476	10,000
06	ILLINOIS BREEDING COOP-----	0	0	0	30	6,795	227	6,795
16	KANSAS ART. BREEDING SERV. UNIT-----	8	4,359	545	66	16,873	256	21,232
05	*KENTUCKY ART. BREEDING ASSN.-----	16	6,508	407	17	4,236	249	10,744
08	LOUISIANA ANIMAL BREEDERS COOP.-----	2	108	54	4	889	222	997
49**	MARYLAND ART. BREEDING COOP.-----	5	3,436	687	0	0	0	3,436

TABLE 5.--BEEF BOLLS, UNITS OF SEMEN SOLD, AND UNITS OF SEMEN CUSTOM-FROZEN IN FY 1974, BY AI ORGANIZATION WITHIN BREED 1/ 2/

		ONITS SOLD			DNITS CUSTOM-FROZEN			
AI CODE	BREED AND AI ORGANIZATION NAME	BDLLS	ONITS	AVG./ BDLL	BDLLS	ONITS	AVG./ BDLL	TOTAL DNITS

HEREFOBD --CONT'D.								
04	*MICHIGAN ANIMAL BREEDERS COOP.-----	4	224	56	3	1,568	523	1,792
21	MIDWEST BREEDERS COOP.-----	8	33,328	4,166	215	28,367	132	61,695
17	MINNESOTA VALLEY BBEDEBS ASSN.-----	8	22,750	2,844	34	8,607	253	31,357
10	*MISSISSIPPI ANIMAL BBEDEBS COOP.---	0	0	0	13	3,259	251	3,259
01	NOBA, INC-----	1	205	205	65	18,548	285	18,753
36	NORTH AMERICAN BBEEDERS, INC-----	0	0	0	19	5,054	266	5,054
25**	NORTHEASTERN BREEDERS ASSN.-----	---	7,993	---	0	0	0	7,993
07	SELECT SIBES, INC-----	6	4,400	733	63	23,030	366	27,430
09	SIBE POWER, INC-----	4	2,109	527	0	0	0	2,109
61	SOLIGENICS FROZEN SEMEN SERVICE-----	0	0	0	5	350	70	350
42	S.W. AI CDSTOM-FREEZING CENTER-----	0	0	0	15	7,556	504	7,556
48	SYNTEX AGBIBOS./LIVESTOCK GENET. DIV	5	2,177	435	11	5,838	531	8,015
20	*TENN. ART. BREEDING ASSN.-----	---	2,418	---	20	9,001	450	11,419
14	TRI-STATE BREEDERS COOP-----	2	635	318	0	0	0	635
19	*VIRGINIA ANIMAL BBEEDERS ASSN.-----	---	201	---	7	2,275	325	2,476
50**W.	VIRGINIA ART. BREEDERS COOP-----	5	2,315	463	0	0	0	2,315
LIMODSIN								
13	*ALL WEST BBEDEBS-----	---	822	---	0	0	0	822
29	AMERICAN BREEDERS SERVICE, INC-----	11	52,539	4,776	0	0	0	52,539
11	CARNATION CO./GENETIC DIV.-----	4	5,869	1,467	0	0	0	5,869
02	*CENTRAL OHIO BREEDING ASSN.-----	6	1,942	324	2	1,285	643	3,227
40	CDRISS BREEDING SERVICE-----	8	7,529	941	0	0	0	7,529
18	*EAST TENN. ART. BBEDEBS ASSN.-----	6	160	27	0	0	0	160
16	KANSAS ART. BREEDING SERV. DNIT-----	8	648	81	1	2,961	2,961	3,609
05	*KENTOCKY ART. BREEDING ASSN.-----	6	324	54	0	0	0	324
04	*MICHIGAN ANIMAL BBEDEBS COOP.-----	2	283	142	0	0	0	283
21	MIDWEST BREEDERS COOP.-----	0	0	0	1	410	410	410
17	MINNESOTA VALLEY BREEDERS ASSN.-----	0	0	0	1	863	863	863
57	NEW BREEDS INDUSTRIES-----	18	16,417	912	0	0	0	16,417
01	NOBA, INC-----	4	3,396	849	14	16,073	1,148	19,469
42	S.W. AI CDSTOM-FREEZING CENTER-----	0	0	0	4	3,627	907	3,627
48	SYNTEX AGBIBOS./LIVESTOCK GENET. DIV	7	6,949	993	1	2,973	2,973	9,922
20	*TENN. ART. BREEDING ASSN.-----	---	35	---	0	0	0	35
14	TRI-STATE BREEDERS COOP-----	0	0	0	---	214	---	214
19	*VIRGINIA ANIMAL BBEDEBS ASSN.-----	0	0	0	1	2,754	2,754	2,754
LINCOLN RED								
11	CARNATION CO./GENETIC DIV.-----	1	350	350	0	0	0	350
MAINE-ANJOD								
13	*ALL WEST BREEDERS-----	---	6,100	---	0	0	0	6,100
29	AMERICAN BREEDERS SERVICE, INC-----	8	70,754	8,844	0	0	0	70,754
11	CARNATION CO./GENETIC DIV.-----	4	12,506	3,127	1	93	93	12,599
02	*CENTRAL OHIO BREEDING ASSN.-----	6	2,843	474	3	12,019	4,006	14,862
40	CDRISS BREEDING SERVICE-----	5	19,126	3,825	0	0	0	19,126
18	*EAST TENN. ART. BBEDEBS ASSN.-----	5	148	30	0	0	0	148
16	KANSAS ART. BREEDING SERV. DNIT-----	6	4,749	792	1	3,370	3,370	8,119
05	*KENTOCKY ART. BREEDING ASSN.-----	8	4,123	515	0	0	0	4,123
49**	MARYLAND ART. BREEDING COOP.-----	3	100	33	0	0	0	100
04	*MICHIGAN ANIMAL BBEEDERS COOP.-----	5	1,701	340	0	0	0	1,701
21	MIDWEST BREEDERS COOP.-----	0	0	0	15	3,066	204	3,066
17	MINNESOTA VALLEY BREEDERS ASSN.-----	0	0	0	1	100	100	100
57	NEW BREEDS INDUSTRIES-----	11	44,602	4,055	0	0	0	44,602
01	NOBA, INC-----	0	0	0	1	88	88	88
58	PIONEER BEEF CATTLE CO.-----	2	2,760	1,380	0	0	0	2,760
42	S.W. AI CDSTOM-FREEZING CENTER-----	0	0	0	4	5,564	1,391	5,564
48	SYNTEX AGBIBOS./LIVESTOCK GENET. DIV	3	14,849	4,950	3	7,769	2,590	22,618
20	*TENN. ART. BREEDING ASSN.-----	---	237	---	0	0	0	237
50**W.	VIRGINIA ART. BREEDERS COOP-----	3	40	13	0	0	0	40
MARCBIGANA								
29	AMERICAN BREEDERS SERVICE, INC-----	3	5,370	1,790	0	0	0	5,370
02	*CENTRAL OHIO BREEDING ASSN.-----	2	240	120	0	0	0	240
40	CORTISS BREEDING SERVICE-----	1	1,681	1,681	0	0	0	1,681
18	*EAST TENN. ART. BREEDERS ASSN.-----	1	10	10	0	0	0	10

TABLE 5.--BEEF RULLS, UNITS OF SEMEN SOLD, AND UNITS OF SEMEN CUSTOM-FROZEN IN FY 1974, BY AI ORGANIZATION WITHIN BREED 1/ 2/

AI CODE	BREED AND AI ORGANIZATION NAME	UNITS SOLD			UNITS CUSTOM-FROZEN			TOTAL UNITS
		BULLS	UNITS	AVG./ BULL	BULLS	UNITS	AVG./ BULL	
MABCHIGANA --CONT'D.								
05	*KENTUCKY ART. BREEDING ASSN.-----	3	332	111	0	0	0	332
04	*MICHIGAN ANIMAL BREEDERS COOP.-----	2	136	68	0	0	0	136
20	*TENN. ART. BREEDING ASSN.-----	---	62	----	0	0	0	62
MURRAY GBEY								
29	AMEBICAN BREEDEBS SERVICE, INC-----	0	151	0	0	0	0	151
11	CABNATION CO./GENETIC DIV.-----	3	2,229	743	0	0	0	2,229
02	*CENTRAL OHIO BREEDING ASSN.-----	5	209	42	2	1,763	882	1,972
40	CURTISS BBEEDING SERVICE-----	2	2,110	1,055	0	0	0	2,110
18	*EAST TENN. ART. BREEDEBS ASSN.-----	1	21	21	0	0	0	21
16	KANSAS ART. BREEDING SERV. UNIT-----	4	237	59	1	2,034	2,034	2,271
05	*KENTUCKY ART. BREEDING ASSN.-----	5	155	31	0	0	0	155
MICHIGAN ANIMAL BREEDERS COOP.-----								
04	*MICHIGAN ANIMAL BREEDERS COOP.-----	3	51	17	0	0	0	51
57	NEW REEDS INDUSTRIES-----	11	3,029	275	0	0	0	3,029
01	NORA, INC-----	1	87	87	0	0	0	87
07	SELECT SIBES, INC-----	0	0	0	2	10,498	5,249	10,498
20	*TENN. ART. BREEDING ASSN.-----	---	28	----	0	0	0	28
NORMANDE								
11	CARNATION CO./GENETIC DIV.-----	1	3,991	3,991	0	0	0	3,991
02	*CENTRAL OHIO BREEDING ASSN.-----	2	265	133	0	0	0	265
05	*KENTUCKY ART. BREEDING ASSN.-----	3	336	112	0	0	0	336
04	*MICHIGAN ANIMAL BREEDEBS COOP.-----	1	75	75	0	0	0	75
20	*TENN. ART. BREEDING ASSN.-----	---	5	----	0	0	0	5
NORWEGIAN RED								
29	AMEBICAN BREEDEBS SERVICE, INC-----	3	4,071	1,357	0	0	0	4,071
02	*CENTRAL OHIO BREEDING ASSN.-----	1	30	30	0	0	0	30
18	*EAST TENN. ART. BREEDEBS ASSN.-----	1	24	24	0	0	0	24
05	*KENTUCKY ART. BREEDING ASSN.-----	1	124	124	0	0	0	124
01	NORA, INC-----	0	0	0	2	452	226	452
07	SELECT SIBES, INC-----	1	183	183	0	0	0	183
20	*TENN. ART. BREEDING ASSN.-----	---	121	----	9	8,468	941	8,589
PINZGAUER								
13	*ALL WEST BREEDEBS-----	---	162	----	0	0	0	162
11	CABNATION CO./GENETIC DIV.-----	4	5,503	1,376	0	0	0	5,503
02	*CENTRAL OHIO BREEDING ASSN.-----	2	1,000	500	0	0	0	1,000
18	*EAST TENN. ART. BREEDEBS ASSN.-----	2	60	30	0	0	0	60
16	KANSAS ART. BREEDING SERV. UNIT-----	1	80	80	0	0	0	80
05	*KENTUCKY ART. BREEDING ASSN.-----	2	111	56	0	0	0	111
57	NEW REEDS INDUSTRIES-----	2	6,049	3,025	0	0	0	6,049
SYNTEX AGRIRUS./LIVESTOCK GENET. DIV								
48	SYNTEX AGRIRUS./LIVESTOCK GENET. DIV	2	839	420	0	0	0	839
20	*TENN. ART. BREEDING ASSN.-----	---	172	----	0	0	0	172
POLLED BEBEFORD								
29	AMEBICAN BREEDEBS SERVICE, INC-----	8	64,630	8,079	0	0	0	64,630
11	CABNATION CO./GENETIC DIV.-----	10	10,922	1,092	24	3,173	132	14,095
40	CURTISS BBEEDING SERVICE-----	12	53,048	4,421	0	0	0	53,048
18	*EAST TENN. ART. BREEDERS ASSN.-----	8	1,090	136	3	486	162	1,576
08	LOUISIANA ANIMAL BREEDERS COOP.-----	0	0	0	2	524	262	524
04	*MICHIGAN ANIMAL BREEDERS COOP.-----	15	7,618	508	6	481	80	8,099
10	*MISSISSIPPI ANIMAL BREEDERS COOP.---	0	0	0	13	5,837	449	5,837
NORA, INC-----								
01	NORA, INC-----	6	22,915	3,819	24	7,412	309	30,327
07	SELECT SIBES, INC-----	10	4,636	464	25	6,199	248	10,835
42	S.W. AI CUSTOM-FREEZING CENTER-----	0	0	0	4	2,142	536	2,142
14	TRI-STATE BREEDERS COOP-----	4	9,657	2,414	---	642	----	10,299
19	*VIRGINIA ANIMAL BBEDEBS ASSN.-----	---	1,525	----	14	5,117	366	6,642
POLLED SHORTBORN								
11	CARNATION CO./GENETIC DIV.-----	3	1,436	479	10	1,628	163	3,064
40	CURTISS BREEDING SERVICE-----	1	1,728	1,728	0	0	0	1,728
18	*EAST TENN. ART. BBEDEBS ASSN.-----	2	127	64	0	0	0	127
57	NEW REEDS INDUSTRIES-----	3	2,480	827	0	0	0	2,480
01	NORA, INC-----	1	45	45	1	378	378	423
07	SELECT SIBES, INC-----	1	225	225	3	2,159	720	2,384

TABLE 5.--BEEF BULLS, UNITS OF SEMEN SOLO, AND UNITS OF SEMEN CUSTOM-FROZEN IN FY 1974, BY AI ORGANIZATION WITHIN BREED 1/ 2/

AI CODE	BREED AND AI ORGANIZATION NAME	UNITS SOLD			UNITS CUSTOM-FROZEN			TOTAL UNITS
		BULLS	UNITS	AVG./ BULL	BULLS	UNITS	AVG./ BULL	
RED ANGUS								
29	AMERICAN BREEDERS SERVICE, INC-----	3	17,290	5,763	0	0	0	17,290
11	CARNATION CO./GENETIC DIV.-----	3	6,651	2,217	2	193	97	5,844
40	CURTISS BREEING SERVICE-----	4	3,426	857	0	0	0	3,426
16	KANSAS ART. BREEDING SERV. UNIT-----	1	144	144	0	0	0	144
08	LOUISIANA ANIMAL BREEDERS COOP.-----	0	0	0	1	215	215	215
17	MINNESOTA VALLEY BREEDERS ASSN.-----	2	5,179	2,590	0	0	0	5,179
10	*MISSISSIPPI ANIMAL BREEDERS COOP.---	0	0	0	2	303	152	303
01	NORA, INC-----	3	686	229	3	442	147	1,128
58	PIONEER BEEF CATTLE CO.-----	2	154	77	0	0	0	154
07	SELECT SIRES, INC-----	2	960	480	0	0	0	960
48	SYNTEX AGRIRUS./LIVESTOCK GENET. DIV	3	9,558	3,186	0	0	0	9,558
19	*VIRGINIA ANIMAL BREEDERS ASSN.-----	0	0	0	1	530	530	530
RED BRANGUS								
11	CARNATION CO./GENETIC DIV.-----	1	1,370	1,370	0	0	0	1,370
RED OANE								
07	SELECT SIRES, INC-----	1	12	12	0	0	0	12
RED POLL								
29	AMERICAN BREEDERS SERVICE, INC-----	0	304	12	0	0	0	304
11	CARNATION CO./GENETIC DIV.-----	2	505	253	2	262	131	767
02	*CENTRAL ORIO BREEDING ASSN.-----	1	69	69	0	0	0	69
40	CURTISS BREEING SERVICE-----	2	1,057	529	0	0	0	1,057
18	*EAST TENN. ART. BREEDERS ASSN.-----	1	24	24	0	0	0	24
05	*KENTUCKY ART. BREEDING ASSN.-----	2	181	91	0	0	0	181
01	NORA, INC-----	1	161	161	1	56	56	217
07	SELECT SIRES, INC-----	1	318	318	0	0	0	318
20	*TENN. ART. BREEDING ASSN.-----	0	0	0	1	300	300	300
ROMAGNOLA								
29	AMERICAN BREEDERS SERVICE, INC-----	2	4,644	2,322	0	0	0	4,644
11	CARNATION CO./GENETIC DIV.-----	1	1,087	1,087	0	0	0	1,087
SANTA GERTRUDIS								
29	AMERICAN BREEDERS SERVICE, INC-----	4	4,347	1,087	0	0	0	4,347
11	CARNATION CO./GENETIC DIV.-----	1	806	806	2	342	171	1,148
02	*CENTRAL ORIO BREEDING ASSN.-----	1	229	229	16	31,699	1,981	31,928
40	CURTISS BREEING SERVICE-----	2	1,692	846	0	0	0	1,692
18	*EAST TENN. ART. BREEDERS ASSN.-----	1	93	93	0	0	0	93
05	*KENTUCKY ART. BREEDING ASSN.-----	2	134	67	1	60	60	194
04	*MICHIGAN ANIMAL BREEDERS COOP.-----	1	33	33	0	0	0	33
01	NORA, INC-----	2	1,484	742	2	232	116	1,716
07	SELECT SIRES, INC-----	1	1,168	1,168	0	0	0	1,168
42	S.W. AI CUSTOM-FREEZING CENTER-----	0	0	0	1	19	19	19
20	*TENN. ART. BREEDING ASSN.-----	---	76	---	1	562	562	638
19	*VIRGINIA ANIMAL BREEDERS ASSN.-----	---	1	---	0	0	0	1
SCOTCH HIGHLAND								
40	CURTISS BREEING SERVICE-----	2	1,326	663	0	0	0	1,326
SCOTCH SHORTHORN								
29	AMERICAN BREEDERS SERVICE, INC-----	4	11,651	2,913	0	0	0	11,651
02	*CENTRAL ORIO BREEDING ASSN.-----	3	564	188	9	2,947	327	3,511
40	CURTISS BREEING SERVICE-----	1	1,458	1,458	0	0	0	1,458
54	HAWKEYE BREEDERS SERVICE-----	0	0	0	4	1,000	250	1,000
06	ILLINOIS BREEDING COOP-----	0	0	0	3	415	138	415
16	KANSAS ART. BREEDING SERV. UNIT-----	3	1,507	502	3	3,234	1,078	4,741
05	*KENTUCKY ART. BREEDING ASSN.-----	6	350	58	4	360	90	710
04	*MICHIGAN ANIMAL BREEDERS COOP.-----	4	466	117	3	593	198	1,059
21	MIDWEST BREEDERS COOP.-----	0	0	0	21	3,473	165	3,473

TABLE 5.--REEF ROLLS, UNITS OF SEMEN SOLD, AND UNITS OF SEMEN CUSTOM-FROZEN IN FY 1974, BY AI ORGANIZATION WITHIN BREED 1/ 2/

AI CODE	BREED AND AI ORGANIZATION NAME	UNITS SOLD			UNITS CUSTOM-FROZEN			TOTAL UNITS
		ROLLS	UNITS	AVG./ BULL	BULLS	UNITS	AVG./ BULL	
SCOTCH SHORTHORN --CONT'D.								
17	MINNESOTA VALLEY REEDERS ASSN.-----	4	2,281	570	0	0	0	2,281
36	NORTH AMERICAN REEDERS, INC-----	0	0	0	1	166	166	166
20	*TENN. ART. BREEDING ASSN.-----	---	223	----	0	0	0	223
19	*VIRGINIA ANIMAL BREEDERS ASSN.-----	---	74	----	1	837	837	911
50**W.	VIRGINIA ART. REEDERS COOP-----	2	148	74	0	0	0	148
SIMMENTAL								
13	*ALL WEST BREEDERS-----	---	9,285	----	---	239	----	9,524
29	AMERICAN REEDERS SERVICE, INC-----	41	318,389	7,766	0	0	0	318,389
11	CARNATION CO./GENETIC DIV.-----	8	39,979	4,997	7	6,425	918	46,404
02	*CENTRAL OHIO BREEDING ASSN.-----	28	12,860	459	24	47,600	1,983	60,460
40	CURTISS REEDING SERVICE-----	37	168,261	4,548	0	0	0	168,261
18	*EAST TENN. ART. REEDERS ASSN.-----	14	760	54	0	0	0	760
03	EASTERN A. I. COOP-----	0	0	0	3	1,294	431	1,294
06	ILLINOIS BREEDING COOP-----	0	0	0	4	5,810	1,453	5,810
16	KANSAS ART. BREEDING SERV. UNIT-----	25	16,316	653	33	35,920	1,088	52,236
05	*KENTUCKY ART. BREEDING ASSN.-----	26	9,209	354	9	4,322	480	13,531
D8	LOUISIANA ANIMAL BREEDERS COOP.-----	3	2,490	830	7	17,293	2,470	19,783
49**M	MARYLAND ART. BREEDING COOP.-----	7	250	36	0	0	0	250
04	*MICHIGAN ANIMAL REEDERS COOP.-----	22	5,937	270	0	0	0	5,937
21	MIDWEST REEDERS COOP.-----	2	2,876	1,438	53	11,944	225	14,820
17	MINNESOTA VALLEY BREEDERS ASSN.-----	0	0	0	1	658	658	658
10	*MISSISSIPPI ANIMAL BREEDERS COOP.---	0	0	0	3	694	231	694
57	NEW BREEDS INDUSTRIES-----	45	138,602	3,080	0	0	0	138,602
01	NORA, INC-----	2	1,595	798	22	16,691	759	18,286
36	NORTH AMERICAN BREEDERS, INC-----	0	0	0	4	5,403	1,351	5,403
58	PIONEER BEEF CATTLE CO.-----	3	757	252	0	0	0	757
07	SELECT SIRE, INC-----	2	874	437	4	4,499	1,125	5,373
09	SIRE POWER, INC-----	0	0	0	1	246	246	246
61	SOLIGENICS FROZEN SEMEN SERVICE-----	0	0	0	1	300	300	300
42	S.W. AI CUSTOM-FREEZING CENTER-----	0	0	0	11	5,539	504	5,539
48	SYNTEX AGRIRUS./LIVESTOCK GENET. DIV	9	42,989	4,777	10	17,875	1,788	60,864
20	*TENN. ART. REEDING ASSN.-----	---	1,306	----	5	3,288	658	4,594
19	*VIRGINIA ANIMAL BREEDERS ASSN.-----	0	0	0	3	2,676	892	2,676
50**W.	VIRGINIA ART. REEDERS COOP-----	7	87	12	0	0	0	87
SOUTR DEVON								
40	CURTISS BREEDING SERVICE-----	1	152	152	0	0	0	152
42	S.W. AI CUSTOM-FREEZING CENTER-----	0	0	0	1	182	182	182
TARANTAISE								
29	AMERICAN BREEDERS SERVICE, INC-----	5	31,904	6,381	0	0	0	31,904
57	NEW BREEDS INDUSTRIES-----	1	458	458	0	0	0	458
WELSH BLACK								
40	CURTISS REEDING SERVICE-----	1	429	429	0	0	0	429
16	KANSAS ART. BREEDING SERV. UNIT-----	1	42	42	0	0	0	42
57	NEW BREEDS INDUSTRIES-----	2	24	12	0	0	0	24
MIXED AND UNNAMED								
31	THE BULL BANK-----	2	7,612	3,806	16	111,057	6,941	118,669
11	CARNATION CO./GENETIC DIV.-----	6	518	86	13	947	73	1,465
D2	*CENTRAL OHIO REEDING ASSN.-----	0	0	0	148	3,748	25	3,748
52	COLO. ST. U. REPROD. LAB.-----	0	0	0	---	362,839	-----	362,839
23	EXCELSIOR FARMS-----	0	0	0	---	638	-----	638
54	HAWKEYE REEDERS SERVICE-----	0	0	0	10	5,500	550	5,500
05	*KENTUCKY ART. REEDING ASSN.-----	6	129	22	0	0	0	129
04	*MICHIGAN ANIMAL BREEDERS COOP.-----	15	398	27	0	0	0	398
57	NEW BREEDS INDUSTRIES-----	1	30	30	0	0	0	30
01	NORA, INC-----	1	65	65	0	0	0	65
36	NORTH AMERICAN REEDERS, INC-----	0	0	0	1	63	63	63
25**N	NORTHEASTERN REEDERS ASSN.-----	---	406	----	0	0	0	406
58	PIONEER BEEF CATTLE CO.-----	---	2,365	----	0	0	0	2,365
42	S.W. AI CUSTOM-FREEZING CENTER-----	0	0	0	3	3,558	1,186	3,558
48	SYNTEX AGRIRUS./LIVESTOCK GENET. DIV	0	0	0	3	1,657	552	1,657

1/ DASHES INDICATE INFORMATION NOT REPORTED OR NOT AVAILABLE.

2/ ZEROS INDICATE NO ACTIVITY.

TABLE 6.--THE TOP TEN STATES FOR DAIRY AND BEEF UNITS OF SEMEN SOLD FOR 4 YEARS

RANK	1971	1972	1973	1974
DAIRY				
1	WISCONSIN	WISCONSIN	WISCONSIN	WISCONSIN
2	NEW YORK	NEW YORK	NEW YORK	CALIFORNIA
3	CALIFORNIA	CALIFORNIA	CALIFORNIA	NEW YORK
4	PENNSYLVANIA	PENNSYLVANIA	MINNESOTA	MINNESOTA
5	MINNESOTA	MINNESOTA	PENNSYLVANIA	PENNSYLVANIA
6	OHIO	OHIO	OHIO	OHIO
7	MICHIGAN	MICHIGAN	MICHIGAN	MICHIGAN
8	FLORIDA	IOWA	ILLINOIS	FLORIDA
9	IOWA	FLORIDA	FLORIDA	IOWA
10	INDIANA	WASHINGTON	IOWA	VERMONT
BEEF				
1	TEXAS	TEXAS	TEXAS	WISCONSIN
2	WISCONSIN	WISCONSIN	WISCONSIN	MONTANA
3	IOWA	OHIO	OHIO	TEXAS
4	MINNESOTA	MISSOURI	MINNESOTA	MINNESOTA
5	MISSOURI	IOWA	MISSOURI	OHIO
6	OHIO	MINNESOTA	MASSACHUSETTS	IOWA
7	KANSAS	MONTANA	MONTANA	MISSOURI
8	ILLINOIS	OKLAHOMA	IOWA	PENNSYLVANIA
9	OKLAHOMA	FLORIDA	OKLAHOMA	SOUTH DAKOTA
10	PENNSYLVANIA	WASHINGTON	COLORADO	KENTUCKY

TABLE 7.--STATUS OF ARTIFICIAL BREEDING IN THE UNITED STATES, FISCAL YEARS 1970-74

FISCAL YEAR	SOLO		CUSTOM-FROZEN		TOTAL DAIRY	TOTAL BEEF
	DAIRY	BEEF	DAIRY	BEEF		
	UNITS					
1970	11,312,269	1,926,930	422,560	979,635	11,734,829	2,906,565
1971	10,926,992	2,078,632	439,468	1,029,529	11,366,460	3,108,161
1972	11,833,075	2,390,505	484,601	1,091,297	12,317,676	3,481,802
1973	11,393,806	2,683,417	570,618	1,146,332	11,936,424	3,829,749
1974	10,887,456	2,869,659	616,104	1,675,843	11,503,560	4,545,502

TABLE B--ARTIFICIAL-INSEMINATION ORGANIZATIONS REPORTING DATA TO THE UNITED STATES DEPARTMENT OF AGRICULTURE 1/

CODE	ORGANIZATION NAME AND ADDRESS
13	*ALL WEST BREEDERS, BOX 197, BURLINGTON, WASHINGTON 98233
29	AMERICAN BREEDERS SERVICE, INC., OE FOREST, WISCONSIN 53532
45	ARTIEICIAL INSEMINATION PROGRAM OF PUERTO RICO, P.O. BOX 726, OORADO, PUERTO RICO 00646
15	ATLANTIC BREEDERS COOP., 1575 APOLLO DRIVE, LANCASTER, PENNSLYVANIA 17601
31	THE BULL BANK, 18907 E. LONE TREE ROAD, ESCALON, CALIFORNIA 95320
11	CARNATION CO./GENETICS OIVISION, P.O. BOX 938, HUGHSON, CALIFORNIA 95326
2	*CENTRAL OHIO BREEDING ASS'N., 1224 ALTON-DARBY ROAD, COLUMBUS, OHIO 43228
52	COLORADO STATE UNIV. ANIMAL REPRODUCTION LABORATORY, ET. COLLINS, COLORADO 80521
40	CURTISS BREEDING SERVICE, CARY, ILLINOIS 60013
26	EAST CENTRAL BREEDERS ASS'N. COOP., P.O. BOX 191, WAUPUN, WISCONSIN 53963
18	*EAST TENNESSEE ART. BREEDERS ASS'N., RT9 10, TIPTON STATION ROAD, KNOXVILLE, TENNESSEE 37920
3	EASTERN ARTIEICIAL INSEMINATION COOP., INC., P.O. BOX 518, ITHACA, NEW YORK 14850
23	EXCELSIOR FARMS, RT. 1, BOX 128, CORONA, CALIFORNIA 91720
53	GENERAL GENETICS, P.O. BOX 23, JENISON, MICHIGAN 49428
54	HAWKEYE BREEDERS SERVICE, 4535 NW FIRST STREET, OES MOINES, IOWA 50313
27	HERDSMAN INC., BOX 391 PUTNAM, CCNNECTICUT 06260
6	ILLINOIS BREEDING COOP., RT. 1, HAMPSHIRE, ILLINOIS 60140
16	KANSAS ART. BREEDING SERVICE UNIT, 1401 COLLEGE AVENUE, KANSAS STATE UNIV., MANHATTAN, KANSAS 66502
5	*KENTUCKY ARTIEICIAL BREEDING ASS'N., 1930 HERR LANE, LOUISVILLE, KENTUCKY 40222
8	LOUISIANA ANIMAL BREEDERS COOP. BOX 80, LSU, BATON ROUGE, LOUISIANA 70803 70803
49**	MARYLAND ARTIEICIAL BREEDING COOP., BOX 555, FREDERICK, MARYLAND 21701
4	*MICHIGAN ANIMAL BREEDERS COOP. INC., BOX 511, EAST LANSING, MICHIGAN 48823
21	MIDWEST BREEDERS COOP., P.O. BOX 469, SHAWANO, WISCONSIN 54166
17	MINNESOTA VALLEY BREEDERS ASS'N., NEW PRAGUE, MINNESOTA 56071
10	*MISSISSIPPI ANIMAL BREEDERS COOP., ORAWER BA, STATE COLLEGE, MISSISSIPPI 39762
57	NEW BREEOS INOUSTRIES, BOX 959, MANHATTAN, KANSAS 66502
1	NOBA, INC., P.O. BOX 607, TIFFIN, OHIO 44883
36	NORTH AMERICAN BREEDERS, INC., RT. 1, BOX 321-A, BERRYVILLE, VIRGINIA 22611
25**	NORTHEASTERN BREEDERS ASS'N., RT. 2, TUNKHANNOCK, PENNSYLVANIA 18657
58	PIONEER BEE CATTLE CO., BOX 37, JOHNSTON, IOWA 50323
7	SELECT SIRES, INC., 11740 U.S. 42, PLAIN CITY, OHIO 43064
9	SIRE POWER, INC., RT. 2, TUNKHANNOCK, PENNSYLVANIA 18657
61	SOLIGENICS EROZEN SEMEN SERVICE, 584 THOMPSONVILLE ROAD, SUFFIELD, CONNECTICUT 06078
42	SW AI CUSTOM FREEZING CENTER, RT. 1, BOX 50-A, PONDER, TEXAS 76259
48	SYNTEX AGRIBUSINESS / LIVESTOCK GENETICS OIV., BOX 29009, DENVER, COLORADO 80229
20	*TENNESSEE ARTIEICIAL BREEDING ASS'N., BOX 67, BRENTWOOD, TENNESSEE 37027
14	TRI-STATE BREEDERS COOP., WESTBY, WISCONSIN 54667
19	*VIRGINIA ANIMAL BREEDERS ASS'N., INC., P.O. ORAWER 370, ROCKY MOUNT, VIRGINIA 24151
50**	WEST VIRGINIA ARTIFICIAL BREEDERS COOP., BOX 555, FREDERICK, MARYLAND 21701
46	WYE PLANTATION, QUEENSTOWN, MARYLAND 21658

1/ * INDICATES MEMBER OF SELECT SIRES, INC. / ** INDICATES MEMBER OF SIRE POWER, INC.

TABLE 9.--EXTENSION DAIRYMEN ADVISING ON DAIRY CATTLE BREEDING PROGRAMS IN EACH STATE

ALABAMA-----	CHARLES D. GRIFFIN, DAIRY SCIENCE DEPT., AUBURN UNIVERSITY, AUBURN 36830.
ALASKA-----	ARTHUR L. BRUNDAGE, EXPERIMENT STATION RESEARCH STAFF, UNIVERSITY OF ALASKA, PALMER 99645.
ARIZONA-----	DENNIS V. ARMSTRONG, DEPT. OF DAIRY SCIENCE, UNIVERSITY OF ARIZONA, TUCSON 85721.
ARKANSAS-----	LANTIS RATCLIFF, ANIMAL INDUSTRY & VETERINARY SCIENCE DEPT., UNIVERSITY OF ARKANSAS, LITTLE ROCK 72203.
CALIFORNIA-----	FRANK D. MURRILL, ANIMAL SCIENCE BLDG., UNIVERSITY OF CALIFORNIA, DAVIS 95616.
COLORADO-----	DAWSON C. JORDAN, ANIMAL SCIENCE DEPT., COLORADO STATE UNIVERSITY, FORT COLLINS 80521.
CONNECTICUT-----	ROBERT H. BENSON, ANIMAL INDUSTRIES DEPT., UNIVERSITY OF CONNECTICUT, STORRS 06268.
DELAWARE-----	W. R. HESSELTINE, COLLEGE OF AGR. SCIENCES, UNIVERSITY OF DELAWARE, NEWARK 19711.
FLORIDA-----	DANIEL W. WEBB, DAIRY SCIENCE BLDG., UNIVERSITY OF FLORIDA, GAINESVILLE 32601.
GEORGIA-----	J. N. MADDOX, ANIMAL INDUSTRY DIVISION, UNIVERSITY OF GEORGIA, ATHENS 30601.
HAWAII-----	STEVEN E. OLBRIK, ANIMAL SCIENCE DEPT., UNIVERSITY OF HAWAII, HONOLULU 96822
IDAHO-----	RICHARD H. ROSS, AGRICULTURAL SCIENCE BLDG., UNIVERSITY OF IDAHO, MOSCOW 83843.
ILLINOIS-----	RALPH V. JOHNSON, ANIMAL SCIENCE DEPT., UNIVERSITY OF ILLINOIS, URBANA 61803.
INDIANA-----	N. J. MOELLER, DEPT. OF ANIMAL SCIENCES, PURDUE UNIVERSITY, LAFAYETTE 47907.
IOWA-----	BASIL R. EASTWOOD, ANIMAL AND DAIRY SCIENCE DEPT., IOWA STATE UNIVERSITY, AMES 50010.
KANSAS-----	E. RALPH BONEWITZ, DAIRY SCIENCE DEPT., KANSAS STATE UNIVERSITY, MANHATTAN 66504.
KENTUCKY-----	JOHN H. NICOLAI, JR., DAIRY PRODUCTION DEPT., UNIVERSITY OF KENTUCKY, LEXINGTON 40506.
LOUISIANA-----	H. W. ANDERSON, LA. AGR. EXTENSION SERVICE, LOUISIANA STATE UNIVERSITY, BATON ROUGE 70803.
MAINE-----	GLENN K. WILDES, AREA DAIRY SPEC., COURT HOUSE ANNEX, ALFREO 04002.
MARYLAND-----	PHILLIP K. HOLDAWAY, DAIRY SCIENCE DEPT., UNIVERSITY OF MARYLAND, COLLEGE PARK 20742.
MASSACHUSETTS-----	STANLEY N. GAUNT, VETERINARY AND ANIMAL SCIENCES DEPT., UNIVERSITY OF MASSACHUSETTS, AMHERST 01003.
MICHIGAN-----	CLINTON E. MEADOWS, DAIRY GENETICS AND BREEDING, MICHIGAN STATE UNIVERSITY, EAST LANSING 48823.
MINNESOTA-----	B. JOSEPH CONLIN, DEPT. OF ANIMAL SCIENCE, UNIVERSITY OF MINNESOTA, ST. PAUL 55101.
MISSISSIPPI-----	GEORGE B. CRAIN, DAIRY SCIENCE DEPT., MISSISSIPPI STATE UNIVERSITY, STATE COLLEGE 39762.
MISSOURI-----	REX E. RICKETTS, DAIRY HUSBANDRY DEPT., UNIVERSITY OF MISSOURI, COLUMBIA 65202.
MONTANA-----	B. R. MOSS, DEPT. OF ANIMAL SCIENCE AND RANGE MANAGEMENT, MONTANA STATE UNIVERSITY, BOZEMAN 59715.
NEBRASKA-----	PHILLIP H. COLE, DAIRY SCIENCE DEPT., UNIVERSITY OF NEBRASKA, LINCOLN 68503.
NEVADA-----	MAX B. RADMALL, ANIMAL SCIENCE DEPT., UNIVERSITY OF NEVADA, RENO 89507.
NEW HAMPSHIRE-----	THOMAS P. FAIRCHILLO, ANIMAL SCIENCE DEPT., UNIVERSITY OF NEW HAMPSHIRE, DURHAM 03824.
NEW JERSEY-----	EDWARD T. OLESKIE, ANIMAL SCIENCE DEPT., RUTGERS UNIVERSITY, NEW BRUNSWICK 08903.
NEW MEXICO-----	J. BORDEN ELLS, DAIRY DEPT., NEW MEXICO STATE UNIVERSITY, LAS CRUCES 88001.
NEW YORK-----	ROBERT W. EVERETT, ANIMAL SCIENCE DEPT., CORNELL UNIVERSITY, ITHACA 14850.
NORTH CAROLINA-----	FRANK O. SARGENT, ANIMAL SCIENCE DEPT., NORTH CAROLINA STATE UNIVERSITY, RALEIGH 27607.
NORTH DAKOTA-----	GEORGE R. FISHER, DAIRY HUSBANDRY DEPT., NORTH DAKOTA STATE UNIVERSITY, FARGO 58103.
OHIO-----	HARRY L. BARR, DAIRY SCIENCE DEPT., OHIO STATE UNIVERSITY, COLUMBUS 43210.
OKLAHOMA-----	CLIFFORD H. BURTON, DEPT. OF DAIRYING, OKLAHOMA STATE UNIVERSITY, STILLWATER 74074.
OREGON-----	DONALD E. ANDERSON, 256 WARNER-MILNE ROAD, OREGON CITY 97045
PENNSYLVANIA-----	LAWRENCE W. SPECHT, DAIRY SCIENCE DEPT., PENNSYLVANIA STATE UNIVERSITY, UNIVERSITY PARK 16802.
PUERTO RICO-----	A. A. ROMERO, BOX 726, PORRADO 00646
RHODE ISLAND-----	JAMES W. COBBLE (ACTING), DAIRY SCIENCE DEPT., UNIVERSITY OF RHODE ISLAND, KINGSTON 02881.
SOUTH CAROLINA-----	WILLIAM L. NORTHERN, DAIRY SCIENCE DEPT., CLEMSON UNIVERSITY, CLEMSON 29631.
SOUTH DAKOTA-----	GEORGE HEERSCHKE, JR., DAIRY SCIENCE DEPT., SOUTH DAKOTA STATE UNIVERSITY, BROOKINGS 57006
TENNESSEE-----	C. K. CHAPPELL, DAIRY DEPT., UNIVERSITY OF TENNESSEE, KNOXVILLE 37916.
TEXAS-----	MICHAEL A. TOMASZEWSKI, HERMAN HEEP BLDG. - RM. 110-C, TEXAS A & M UNIVERSITY, COLLEGE STATION 77843
UTAH-----	WILLIAM J. BARNES, USU EXTENSION DAIRY SPECIALIST, 444 SOUTH 300 WEST, SALT LAKE CITY 84101
VERMONT-----	K. S. GIBSON, ANIMAL AND DAIRY SCIENCE DEPT., UNIVERSITY OF VERMONT, BURLINGTON 05401.
VIRGINIA-----	MICHAEL L. MCGILLIARD, DAIRY SCIENCE DEPT., VIRGINIA POLYTECHNIC INSTITUTE, BLACKSBURG 24061
WASHINGTON-----	BILL F. KELSO, WESTERN WASHINGTON RESEARCH AND EXTENSION CENTER, WASH. STATE UNIV., PUYALLUP 98371.
WEST VIRGINIA-----	R. O. KELLEY, ANIMAL INDUSTRY AND VETERINARY SCIENCE DEPT., WEST VIRGINIA UNIVERSITY, MORGANTOWN 26506.
WISCONSIN-----	ANTON G. SENDELBACH, DAIRY SCIENCE DEPT., UNIVERSITY OF WISCONSIN, MADISON 53706.
WYOMING-----	BARRY J. STEEVENS, BOX 3354, UNIVERSITY STATION, LARAMIE 82071
